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IN THIS ISSUE

Extent of Immunization Among Children of Farm Families



CONTENTS

	Page
Physical impairments of members of low-income farm families—11,490 persons in 2,477 Farm Security Administration borrower families, 1940.	
VI. Extent of immunization against smallpox, diphtheria, and typhoid fever. Mary Gover and Jesse B. Yaukey	97
Prevalence of communicable diseases in the United States, December 2–29, 1945.	109
Deaths during week ended December 29, 1945	114
PREVALENCE OF DISEASE	
United States:	
Reports from States for week ended January 5, 1946, and comparison	
with former years	115
Weekly reports from cities:	
City reports for week ended December 29, 1945	119
Rates, by geographic divisions, for a group of selected cities	121
Territories and possessions:	
Panama Canal Zone-Notifiable diseases-October 1945	122
Foreign reports:	
Angola—Notifiable diseases—July-September 1945	123
Canada—Provinces—Communicable diseases—Week ended December	
8, 1945	123
Norway-Notifiable diseases-June-August 1945	124
World distribution of cholera, plague, smallpox, typhus fever, and	
yellow fever—	
Cholera	124
Plague	125
Smallpox	126
Typhus fever	127
Yellow fever	128

Public Health Reports

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PHYSICAL IMPAIRMENTS OF MEMBERS OF LOW-INCOME FARM FAMILIES—11,490 PERSONS IN 2,477 FARM SECURITY ADMINISTRATION BORROWER FAMILIES, 1940 ¹

VI. EXTENT OF IMMUNIZATION AGAINST SMALLPOX, DIPHTHERIA, AND TYPHOID FEVER

By Mary Gover, and Jesse B. Yaukey, Statisticians, United States Public Health Service

Immunizations against smallpox, diphtheria, and typhoid fever have been in use for a considerable period and have been practiced on a relatively large proportion of the population. Immunizations against scarlet fever and whooping cough are of more recent development, and their use is not so universally urged by health authorities. Collins (4) reports about 4 percent of all children 10 years of age to have had artificial immunization against scarlet fever (1930); no quantitative statement regarding whooping cough vaccine is available. Although immunization against typhoid fever is infrequent in northern States it has been used extensively in southern rural areas.

This study is a quantitative statement of the extent of immunization procedures against smallpox, diphtheria, and typhoid fever among low-income farm families in the United States. The data are cumulative at specific ages, that is, they relate to the entire time prior to examination and are not a record of current annual immunizations. It is possible, however, to subtract successive cumulated rates and so obtain an estimated average annual rate of immunization for specific age groups.

The examined population, described in the first report of this series (6), resided in rural sections of eastern, central, and southern States and consisted of families of farmers in selected areas who had been

¹ From the Division of Public Health Methods, U. S. Public Health Service, in cooperation with the Farm Security Administration, Department of Agriculture. Mr. Yaukey is detailed to the Farm Security Administration.

This is the sixth in a series of papers dealing with physical defects found on examination of members of low-income farm families residing in 19 localities in the United States. The physical findings of the examinations were coded and transferred to punchcards by the Farm Security Administration under the direct supervision of Mr. Jesse B. Yaukey. The data were subsequently made available to the U. S. Public Health Service. Acknowledgment is made to Dr. S. D. Collins for critical suggestions and advice throughout the preparation of the studies.

granted rehabilitation loans by the Farm Security Administration. During the course of a general physical examination each person was asked whether he or she had ever been immunized against smallpox, diphtheria, and typhoid fever. No inquiry was made concerning the number of times immunized or the number of years since the last immunization.

Earlier studies made by this office on the frequency of immunization procedures specific for size of city and family income provide data for comparison with the frequency of immunization in low-income farm These studies were made from two sources: (a) A record of illness and medical services obtained by the Committee on the Costs of Medical care (1, 2, 3) and (b) a health record secured by the Communicable Disease Survey in a 1-day canvass in large cities (5). The survey made by the Committee on the Costs of Medical Care was a record of illness, immunization, physical examination, and medical services received during an observed 12-month period, 1928-31. The family roster and certain past history items were obtained on the initial visit to each family. The observed population consisted of the members of 9,000 white families in 130 localities in 18 States representing every size of community. The records were obtained by visiting nurses through the cooperation of local health organizations. The Communicable Disease Survey was conducted in the spring of 1936 and was a house-to-house canvass of 213,931 families in 28 cities of 100,000 population or more located in 19 States. A single visit was made to each household and information on illness and medical services was obtained usually from the housewife.

IMMUNIZATION AND LOCALITY

Table 1 shows in each of 19 localities the percentage of white children under 15 years of age in Farm Security Administration borrower families that had been immunized at any time against smallpox. diphtheria, and typhoid fever. Thirty percent of all children had been vaccinated against smallpox, 46 percent had been immunized against diphtheria, and 24 percent against typhoid fever. There is a wide range in the percentage of children immunized in the separate localities; from 5 to 63 percent for smallpox, from 30 to 74 percent for diphtheria; and from practically zero to 75 percent for typhoid fever. In this connection, column 4 of table 1 shows health organization facilities in counties as of June 1941 (7); "full time" indicates that the county had a local health officer or the services of a State or local district unit. Among the six northern counties there is no apparent association between organization of a county health department and extent of immunization found on examination of these farm children. However, among southern counties there is probably some slight

association which can scarcely account for the total variability. In southern counties, with and without organized health services, 35 and 22 percent of white children had been immunized against smallpox at some time since birth, and 50 and 36 percent against diphtheria, respectively.

Table 1 .- Percentage of white children under 15 years of age that had been immunized 1 against smallpox, diphtheria, and typhoid fever-members of Farm Security Administration borrower families in 19 localities, 1940.

			Wastel days of	Known as to		orior imn	
Geographic area	State	County	Health depart- ment services ²	immu- niza- tion	Small- pox	Diph- theria	Ty- phoid fever
				Number		Percent ³	
Northeast	Maine	Aroostook	Full time	447	14.0	33.4	0. 2
East North Central	Ohio	Champaign	Unorganized	176	19.9	37.5	. 6
	Indiana	Montgomery	do	130	55. 4	69.2	3.8
West North Central	Missouri	Callaway	Full time	281	10.7	42.7	6.8
	Nebraska	Howard	Unorganized	252	21.8	33.3	. 8
Mountain	Colorado	Phillips	do	165	63.0	65. 5	1.8
South Atlantic	Virginia	Spotsylvania	do	74	37.8	33.8	4. 1
	North Carolina.	Avery	Full time	99	43.4	48.5	34.3
	South Carolina	Kershaw	do	311	55. 3	30. 5	19. 3
	Georgia	Worth	do	278	31. 3	40.3	35. 6
	Florida	Levy	do	205	17.6	63.9	29. 3
East South Central	Tennessee	Henderson	Unorganized	240	10.0	40.0	75.8
	Mississippi	Leflore	Full time	192	44.8	68.7	53. 1
West South Central	Arkansas	Pope	do	324	43.8	- 32.4	30, 6
West Court Continue.	Oklahoma	Okfuskee	Unorganized	252	43.3	48.4	33. 3
	Louisiana	Franklin	Full time	497	31.6	74.2	48.3
	Texas	Panola	Unorganized	117	5.1	31.6	9.4
	do	Williamson	dodo	146	10.3	29. 5	3.4
-	do	Runnels	do	123	13.0	38. 2	5.7
19 localities				4, 309	29.7	45.9	23.6

A slightly higher percentage of children in the South had been immunized than in the North;2 the small differences in the percentage

Immunizations administered by State Health Departments, 1939-41

Immunization against—	United States	North	South	New Eng-	Middle At-	East North Central	West North Central	South At-	East South Central	West South Central	Mountain	Pacific
	000 por	pulatio	n									
Smallpox Diphtheria Typhoid fever	10.3 8.7 13.8	5.7 5.7 .9	18. 1 13. 4 36. 6	2.1 5.0 .3	4.7 4.6 .2	5.7 5.5 .1	8. 5 8. 2 3. 5	17. 2 14. 2 32. 6	21. 9 15. 8 52. 4	16, 3 10, 4 28, 9	16.7 14.8 7.6	6. 0 7. 0

^{. &}lt;sup>1</sup> Immunization at any time since birth.

² From Kratz (7). Health Department services as of June 1941.

³ The range of the probable error of the percentage immunized against smallpox is from 1.1 to 3.8 percent; against diphtheria from 1.3 to 3.7 percent; against typhoid fever from 0.1 to 3.2 percent.

Rates based on the annual number of immunizations performed by State or county health departments and reported to the Public Health Service by State health departments are given in the following table. The rates do not represent the percentage of the population immunized; they are annual rates and, moreover, include immunizations done for the second time on the same individual and exclude all immunizations by private physicians.

immunized in North and South against both smallpox and diphtheria are statistically significant (table 2). The percentage of preschool children that had been immunized is higher in the North for smallpox and higher in the South for diphtheria. Immunization against typhoid fever is markedly higher in the South, particularly in areas where floods occur as in Tennessee (table 1).

Table 2.—Percentage of white children under 15 years of age that had been im-munized 1 against smallpox, diphtheria, and typhoid fever in Northern and Southern localities 2-members of Farm Security Administration borrower families, 1940

	Know	n as to		With pri	or immu	nization	against-	-	
	immur	nization	Smallpox		Diph	theria	Typhoid fever		
Age	North	South	North	South	North	South	North	South	
,	Nur	nber			Per	cent			
Under 15	1, 447	2,862	24.7	32. 2	42.6	47.7	2.1	34. 8	
Under 5	419 495 533	796 980 1,086	6. 9 25. 9 37. 7	1. 0 30. 0 57. 1	15. 3 46. 1 60. 8	32.3 49.3 57.4	1.6 4.1	7. 9 34. 8 54. 6	

¹ Immunization at any time since birth.

³ The localities included are:
North: Aroestook County, Maine; Champaign County, Ohio; Montgomery County, Ind.; Callaway County, Mo.; Howard County, Nebr.; and Phillips County, Colo.
South: Spotsylvania County, Va.; Avery County, N. C.; Kershaw County, S. C.; Worth County, Ga.; Levy County, Fla.; Henderson County, Tenn.; parts of Carroll, Leffore, and Humphreys Counties, Miss.; Pope County, Ark.; Okfuskee County, Okla.; Franklin Parish, La.; and Panola, Williamson, and Runnels Counties. Tex. Counties, Tex.

TREND IN IMMUNIZATION

A trend in the immunization rate is of necessity reflected in the frequency of immunization based on the prior history of persons examined. From a comparison of survey data Collins (5) concluded that there had been no marked change in the rate of vaccination against smallpox between 1929 and 1935; while "the proportion of children immunized against diphtheria appears to have increased rather markedly" although "diphtheria immunizations administered by State Health Departments do not indicate large increases since 1937."

The Annual Report of the Department of Health of New York State (9) gives an interesting tabulation of immunizations against diphtheria performed by the department. The immunization rate for all ages combined declines, from 1926 to 1940, from approximately 2.5 to 1.2 percent for the State exclusive of New York City; urban rates are slightly higher than rural, and both show approximately the same rate of decline. Specific for age, however, the annual rate at which immunizations were performed has been increasing at ages

under 5 years and decreasing over 5 years of age in both urban and rural areas. In other words, the percentage of total immunizations done under 5 years of age has increased; from approximately 20 to 70 percent in urban areas, and from 20 to 60 percent in rural areas, 1926 to 1940. This is in agreement with the recommendation of health organizations that immunization, particularly against diphtheria, be performed at early ages when the death rate is relatively high. In recent years the most conspicuous change in immunization against diphtheria has been this shift to younger ages, although some areas would probably still show an increase in the rates for all ages.

Mississippi State Health Department reports (8) also give the annual number of immunizations performed by the State and county health departments. The annual rate of immunization against diphtheria during the last decade was approximately 2 to 3 percent of the total population with about 70 percent of immunizations performed under 5 years of age in counties with organized health services. rate of vaccination against smallpox shows an association with the establishment of local health departments. Approximately one-third of Mississippi counties have had the services of full-time health officers since 1930 or earlier; another one-third of the counties have had organized health departments since 1930; and the remaining one-third are unorganized counties. In unorganized counties the vaccination rate is approximately 1 percent or less except in epidemic years; while in counties with well-established health departments and in those with recently organized health services the vaccination rate is approximately 3 to 4 percent of the total population annually.

VACCINATION AGAINST SMALLPOX

Figure 1 shows the percentage of children of specific ages that had been vaccinated against smallpox as obtained in three comparable surveys; rates are plotted on semilogarithmic paper for the Farm Security Administration examinations, the Communicable Disease Survey (exclusive of the West) and the Committee on the Costs of Medical Care survey. For all three curves (fig. 1) the percentage vaccinated increases rapidly under 2 years of age, and continues to increase at a slightly less rapid rate until the age of school entrance, 6 to 7 years. The farm children examined by the Farm Security Administration differ from the children of the Committee on the Costs of Medical Care (urban and rural) and Communicable Disease (urban) surveys in having a relatively smaller percentage vaccinated under 1 year of age and an increasing percentage vaccinated during school ages, 7 to 15 years. At 15 years of age approximately 60 percent of Farm Security Administration children and 65 percent of children reported upon by the Committee on the Costs of Medical Care have been vaccinated against smallpox at some time since birth; the Communicable Disease

Survey of children in large cities shows approximately 90 percent had been vaccinated by the time they had reached 15 years of age.

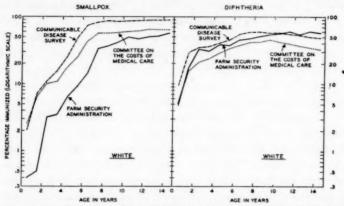


FIGURE 1.—Percentage of children of specific ages that had been immunized against smallpox and diphtheria at any time prior to examination. Farm Security Administration physical examinations, 1940, and comparable data $(1,2,\delta)$. (The Communicable Disease Survey data are exclusive of the West.)

The frequency of vaccination against smallpox varies markedly with size of city and slightly with income and section of the country (1). In

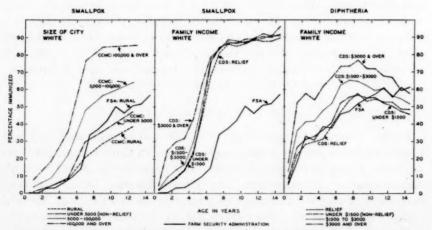


FIGURE 2a.—Percentage of children of specific ages in urban and rural areas that had been vaccinated against smallpox at any time prior to examination. Farm Security Administration physical examinations, 1940, and Committee on the Costs of Medical Care (t).

FIGURE 2b.—Percentage of urban children of specific ages by family income and of rural children of rehabilitation borrower families that had been immunized against smallpox at any time prior to examination. Farm Security Administration physical examinations, 1940, and Communicable Disease Survey (5), exclusive of the West.

FIGURE 2c.—Percentage of urban children of specific ages by family income and of rural children of rehabilitation borrower families that had been immunized against diphtheria at any time prior to examination. Farm Security Administration physical examinations, 1940, and Communicable Disease Survey (6), exclusive of the West.

the Costs of Medical Care study smallpox vaccination is approximately twice as frequent in large cities as in rural areas, 84 and 42 percent, respectively, at 15 years of age. Figure 2 shows the percentage of children in specific age groups that had been vaccinated against small-pox for children of Farm Security Administration borrower families compared with children of the Committee on the Costs of Medical Care Survey in rural areas and three size-of-city groups. Smallpox vaccination is obviously less frequent among the Farm Security Administration farm families than among canvassed families living in cities of 5,000 or more population; and is about the same as among canvassed families in small towns and rurals areas. The somewhat higher percentage vaccinated for Farm Security Administration farm children than for the Committee on the Costs of Medical Care rural children may be largely accounted for by the greater representation of

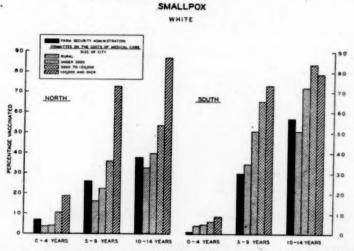


FIGURE 3.—Percentage of children of specific ages in urban and rural areas of North and South that had been vaccinated against smallpox at any time prior to examination. Farm Security Administration physical examinations, 1940, and Committee on the Costs of Medical Care (1).

the South among the rural rehabilitation families, where the percentage vaccinated is slightly higher (table 2 and fig. 3).

Figure 2 also shows the percentage of children in specific age groups that had been vaccinated against smallpox for children of Farm Security Administration families compared with children in families of 4 income groups in cities of 100,000 or more population. The only significant difference among the city curves is the higher percentage of children vaccinated under 5 years of age in families of \$3,000 or more family income. Children of rural farm families have a lower percentage vaccinated than children of families of any income level among city populations.

Except for cities of 100,000 and over in population the South shows a higher percentage vaccinated than the North (1) (fig. 3). For each of three age groups the frequency of vaccination among children of

Farm Security Administration borrower families in the North is about equivalent to that of children in rural areas or small towns as recorded in the Committee on the Costs of Medical Care Survey for the North and about equal to that in rural areas for the South (fig. 3).

Boys and girls (table 3) show practically identical age-specific percentages vaccinated against smallpox. Under 6 years of age, the

Table 3.—Percentage of white children at specific ages that had been immunized ¹ against smallpox, diphtheria, and typhoid fever—members of Farm Security Administration borrower families in a total of 19 localities, ² 1940

	K	nown a	s to		1	With p	rior im	muniz	ation a	gainst-	-		
Age		muniza		8	mallpo	X	D	iphthe	ria	Ту	Typhoid fever		
	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	
		Numb	er					Percen	t				
Under 15	4, 309	2, 194	2, 115	29. 7	30. 1	29. 2	45.8	46.6	45. 0	23.6	24.9	22. 3	
Under 1 Do Under 2	224 202 253	100 93 127	124 109 126	.4 .5 3.2	2.4	.8 .9 4.0	4.9 17.8 33.2	3. 0 16. 1 34. 6	6.5 19.3 31.7	.9 .5 4.0	1.0	4.0	
Under 3 Under 4 Under 5	260 276 277	130 138 141	130 138 136	3.5 6.5 9.7	2.3 6.5 10.6	4.6 6.5 8.8	30. 8 38. 8 37. 9	31. 5 43. 5 32. 6	30. 0 34. 1 43. 4	4. 2 14. 5 13. 0	4.6 14.5 10.6	3. 8 14. 8 15. 4	
Under 6 Under 7 Under 8.	285 313 303	154 178 144	131 135 159	14. 4 33. 9 37. 3	14.9 33.7 40.3	13. 7 34. 1 34. 6	46. 0 47. 6 52. 1	46.8 48.9 57.6	45. 0 45. 9 47. 2	17. 9 25. 6 27. 7	16. 9 27. 5 25. 7	19. 1 23. 0 29. 6	
Under 9 Under 10 Under 11.	297 328 326	150 153 151	147 175 175	42.1 50.3 46.6	44. 0 50. 3 49. 0	40.1 50.3 44.6	54. 9 57. 6 61. 0	56. 7 58. 2 62. 9	53. 1 57. 1 59. 4	31. 6 34. 1 34. 4	31.3 34.6 43.7	32. 0 33. 7 26. 3	
Under 12 Under 13.:	325 319	188 171	137 148	50.8 51.7	48. 4 50. 3	54. 0 53. 4	55. 7 61. 4	54. 8 60. 2	56. 9 62. 8	41. 5 36. 7	41.5	41. 6 31. 8	
Under 14	321	176	145	57.0	54. 5	60. 0	57.9	55. 1	61.4	41.1	41.5	40.7	

¹ Immunization at any time since birth.

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percentages of Negro and white children that have been vaccinated are the same; at 6 years of age and over, however, there are approximately 35 percent more white children who have been vaccinated than Negro (table 4 and fig. 4).

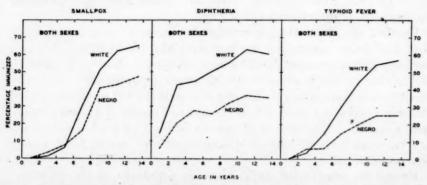


Figure 4.—Percentage of Negro and white children of specific ages that had been immunized against small-pox, diphtheria, and typhoid fever at any time prior to examination. Farm Security Administration physical examinations, 1940, in southern localities where both Negroes and whites were examined.

²The 19 localities are listed in table 1.

Table 4.—Percentage of Negro and white children in specific age groups that had been immunized 1 against smallpox, diphtheria, and typhoid fever—members of Farm Security Administration borrower families in a total of 9 localities, 2 1940

	K	nown	as to			With p	orior in	muniz	ation a	against			
Age		muniz		1	Smallp	ox	D	iphthe	ria	Ту	Typhoid fever		
	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	
		Numb	er					Percen	t				
						Ne	gro						
Under 15	795	397	398	26. 5	27. 2	25. 9	28. 2	24. 2	32. 2	15.7	16.6	14.8	
0- 1 2- 3 4- 5	69 93 102	39 34 50	30 59 52	3.2	2.9	3.4	5, 8 20, 4 27, 5	10.3 11.8 18.0	25. 4 36. 5	5.4	2.9	6.8	
6- 7. 8- 9. 10-11. 12-14.	124 106 113 188	61 52 62 99	63 54 51 89	16.1 40.6 42.5 47.3	14.8 38.5 43.5 48.5	17. 5 42. 6 41. 2 46. 1	25, 8 32, 1 36, 3 35, 1	26. 2 25. 0 29. 0 32. 3	25. 4 38. 9 45. 1 38. 2	14. 5 19. 8 24. 8 25. 0	18. 0 25. 0 19. 4 27. 3	11. 1 14. 8 31. 4 22. 5	
						W	nite			1	1		
Under 15	2, 250	1, 143	1, 107	36. 6	37.1	36.0	50.1	50.6	49.7	33. 7	35. 1	32. 2	
0- 1	258 296	97 121 154 181	120 137 142 142	1. 2 6. 1 30. 7	6. 5 29. 8	2.2 5.6 31.7	14.7 42.6 44.6 50.2	12.4 45.5 40.9 49.2	16.7 40.1 48.6 51.4	3. 5 14. 2 29. 7	3. 3 11. 7 30. 9	3. 6 16. 9 28. 2	
8- 9		144 149 297	160 170 236	51. 3 62. 1 65. 5	56. 9 61. 7 62. 6	46.3 62.4 69.1	55. 6 63. 0 60. 4	59. 0 63. 8 60. 3	52. 5 62. 4 60. 6	44. 1 54. 2 57. 0	42.4 59.1 58.6	45. 6 50. 0 55. 1	

¹ Immunization at any time since birth.

³ The 9 localities are: Spotsylvania County, Va.; Kershaw County, S. C.; Worth County, Ga.; Levy County, Fla.; parts of Carroll, Leftore, and Humphreys Counties, Miss.; Pope County, Ark.; Okfuskee County, Okla.; Franklin Parish, La.; and Panola County, Tex.

IMMUNIZATION AGAINST DIPHTHERIA

Figure 1 shows the frequency of diphtheria immunization for specific ages under 15 years as obtained in three comparable surveys, plotted on semilogarithmic paper. The rate of increase in the percentage immunized is most rapid under 2 years of age; after 2 years of age it continues to increase at a less rapid and practically constant rate until 15 years of age. In both the Committee on the Costs of Medical Care and Communicable Disease Surveys the percentage immunized against diphtheria declines somewhat after approximately 9 or 10 years of age, while in the Farm Security Administration data the percentage immunized continues to increase. The decline in the rate in the two former surveys is probably due partly to the fact that practically all of the children were reported upon and frequently not by their parents, whereas the children examined by the Farm Security Administration either reported upon themselves or were reported upon by their parents. The percentage of children ever immunized also reflects a changing immunization rate; that is, 10-year-old children.

particularly in cities, may have lived their first years at a time when immunization was performed less frequently than 5 years later, for

example.

The frequency of immunization against diphtheria has been shown to vary somewhat with section of the country but to be the same in rural and urban areas (2). For ages under 15 years the frequency of immunization against diphtheria shows a definite relationship with income (2, 5). Figure 2 gives the percentage of children of low-income tarm families that had been immunized compared with the percentages of children immunized in four income groups as obtained by the Communicable Disease Survey in large cities. The West

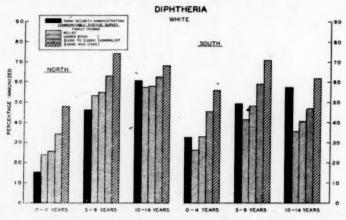


FIGURE 5.—Percentage of urban children of specific ages by family income in North and South and of rural children of rehabilitation borrower families in North and South that had been immunized a gainst diphtheria at any time prior to examination. Farm Security Administration physical examinations, 1940, and Communicable Disease Survey (5). Data by section and income are unpublished.

section has been omitted from the urban survey since western States are not represented in the Farm Security Administration examinations. The frequency of immunization among children of the Farm Security Administration borrower families is about equal to that in the two lower income groups (relief, and nonrelief under \$1,500) in large cities. At 9 years of age, or prior to the decline in the urban percentages, 55 percent of children of rural borrower families had been immunized against diphtheria; while 53 and 55 percent of the children in low-income levels (relief, and nonrelief under \$1,500) in large cities had been immunized. In northern areas (fig. 5) children of Farm Security Administration borrower families show a somewhat lower percentage immunized against diphtheria in the age groups 0-4 and 5-9 years than urban children in low-income groups; in southern areas (fig. 5) they show a slightly higher percentage immunized in all three age groups under 15 years.

Tables 3 and 4 and figure 4 give the percentages of boys and girls and of Negro and white children that had been immunized against diphtheria. Boys and girls show the same percentage immunized in specific age groups; white children show a higher percentage immunized than Negro children for the nine southern localities in which Negroes were examined. Under 4 years of age more than twice as many white as Negro children have been immunized against diphtheria; while from 4 to 15 years of age approximately 70 percent more white than Negro children have been immunized at some time.

IMMUNIZATION AGAINST TYPHOID FEVER

Typhoid fever immunization has been performed, on the whole, in areas where the typhoid problem is the greatest, that is, in small

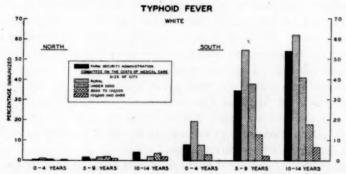


FIGURE 6.—Percentage of children of specific ages in urban and rural areas of North and South that had been immunized against typhoid fever at any time prior to examination. Farm Security Administration physical examinations, 1940, and Committee on the Costs of Medical Care (3).

towns and rural areas of the South (3). The Committee on the Costs of Medical Care survey shows that "the South, with the highest percentage of persons with a history of typhoid fever, has resorted to immunization far more than any other section. In cities over 100,000, immunizations are not much more frequent in the South than elsewhere; the excess for the South is particularly large for small towns and rural areas." At 10–14 years of age approximately 50 percent of children in southern localities have been immunized against typhoid fever among both the rural Farm Security Administration families and families in small towns and rural areas surveyed by the Committee on the Costs of Medical Care (fig. 6). The Communicable Disease Survey in large cities (4) shows a direct relationship between immunization for typhoid fever and size of family income; at 10–14 years, however, slightly less than 6 percent of urban children had been immunized in the \$3,000 and over income group.

Table 3 shows an equal percentage of boys and girls immunized against typhoid fever at specific ages. Among Negroes and whites,

however (table 4 and fig. 4), twice as many white children have been immunized as Negro, or 25 and 57 percent immunized, respectively, at 12-14 years of age in localities where Negroes were examined.

SUMMARY

The frequency of immunization at any time since birth against smallpox, diphtheria, and typhoid fever for children of Farm Security Administration borrower families residing in 19 localities was obtained during the course of general physical examination of rehabilitation farm families. There is marked variability in the percentage of children immunized in the several localities which, in the South at least, may be associated to some extent with the organization of local health departments.

Smallpox vaccination varies slightly with income and section of the country and markedly with size of city, vaccination rates being higher in large cities. At 10–14 years of age 57 percent of children of Farm Security Administration rural borrower families in southern areas had been vaccinated against smallpox, which agrees roughly with the percentage vaccinated in rural areas as reported in the Committee on the Costs of Medical Care survey, namely, 51 percent in rural areas, 72 percent in small towns, 84 percent in towns of 5,000 to 100,000 population, and 79 percent in towns of 100,000 or more population, in surveyed southern areas.

Immunization against diphtheria is not associated with size of city, but varies slightly with geographic section and markedly with size of family income. At 5–9 years of age 49 percent of children of rural borrower families in southern areas had been immunized as compared with 41, 48, 59, and 71 percent of children in families on relief and with incomes under \$1,500, \$1,500–\$3,000, and \$3,000 and over, respectively, in large cities of the South canvassed by the Communicable Disease Survey.

Typhoid fever immunization has been performed mainly in areas where typhoid fever is a real problem, that is, in small towns and rural areas of the South. At 10–14 years of age approximately 50 percent of children in southern localities have been immunized against typhoid fever among both rural Farm Security Administration borrower families and families in small towns and rural areas surveyed by the Committee on the Costs of Medical Care.

The three immunization procedures considered were performed as frequently on boys as girls in these data. The percentage of Negro children immunized is less than the white. At 12-14 years of age approximately 40, 70, and 125 percent more white than Negro children had been immunized at some time since birth against smallpox, diphtheria, and typhoid fever, respectively.

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PREVALENCE OF COMMUNICABLE DISEASES IN THE UNITED STATES

December 2-29, 1945

The accompanying table 1 summarizes the prevalence of nine important communicable diseases, based on weekly telegraphic reports from State health departments. The reports from each State for each week are published in the Public Health Reports under the section "Prevalence of disease." The table gives the number of cases of these diseases for the 4 weeks ended December 29, 1945, the number reported for the corresponding period in 1944, and the median number for the years 1940-44.

DISEASES ABOVE MEDIAN PREVALENCE

Influenza.—For the 4 weeks ended December 29 there was a total of 319,576 cases reported in the 46 States, the District of Columbia, and New York City reporting influenza to the Public Health Service. A comparison of this figure with prior years indicates that it is far above the corresponding period of 1942 and 1944 but roughly the same as in December of 1943 when the last preceding epidemic Influenza virus B has been identified in a number of laboratories during and preceding the present epidemic.

Table 1.—Number of reported cases of 9 communicable diseases in the United States during the 4-week period December 2-29, 1945, the number for the corresponding period in 1944, and the median number of cases reported for the corresponding period, 1940-44

Division	Cur- rent period	1944	5-year median	Cur- rent period	1944	5-year median	Cur- rent period	1944	5-year median
	D	iphther	ia	I	nfluenza	1		Measles	•
United States	1,819	1,517	1,369	319, 576	11, 556	11,556	10, 381	3,092	18, 868
New England	50	33	33	498	102	50	765	320	1, 919
Middle Atlantic	95	111	131	729	32	115	2,930	349	5, 849
East North Central	282	181	181	7, 122	135	341	1,969	295	1,655
West North Central	146	214	94	33, 904	84	157	435	253	1, 409
South Atlantic	416	206	248	49, 663	2, 588	3,755	563	216	922
East South Central	205	166	146	124, 382	389	662	666	131	603
West South Central	415	332	304	59, 697	7, 444	7, 444	316	253	458
Mountain	147	51	51	42,055	632	1,016	685	111	1,300
Pacific.	63	£23	116	1,526	150	418	2, 052	1. 164	1, 164
racme				1,020	100	1 110	2,002	1 1, 101	1, 104
	Mening	ococcus gitis	menin-	Po	oliomyeli	tis	Se	carlet fev	er
Unifed States	498	761	490	458	382	260	10, 391	14, 749	11,821
New England	20	39	39	23	12	12	744	1,601	1, 250
Middle Atlantic	115	195	109	52	153	33	1,902	2, 641	2, 387
East North Central	99	159	54	100	50	32	2, 883	3, 704	3, 351
West North Central	34	46	21	45	41	19	898	1,386	1, 352
South Atlantic	56	87	87	43	29	26	1,089	1,550	1, 148
East South Central	54	55	19	23	11	11	504	677	677
West South Central	43	69	23	34	15	20	713	664	388
Mountain	13	25	25	21	11	11	530	837	640
Pacific	64	86	71	117	60	39	1, 128	1, 689	650
I acme	01	- 00	11				1, 140	1,000	1 000
	8	mallpo		Typho	oid and p hoid feve	er	Who	oping co	ugh ²
United States	23	28	70	207	217	324	7, 297	7,000	12,019
New England	0	0	0	11	17	16	1, 109	1,068	1, 326
Middle Atlantic	0	0	0	29	36	36,	2,024	1,820	3, 266
East North Central	4	10	18	30	23	30	1,671	1, 218	3,076
West North Central	5	9	10	4	8	14	189	306	541
South Atlantic	ő	1	1	32	49	49	825	932	1, 126
East South Central	5	2	3	20	14	32	187	148	401
West South Central	4	4	13	57	36	48	529	691	691
Mountain.	1	9	2	12	13	14	225	251	331
Pacific	i	0	0	12	21	21	538	566	892
r acinc	1	- 0		12	21	21	008	000	592

¹ Mississippi and New York excluded; New York City included. In a number of States the reports seem to represent estimates or the results of artificial stimulation to obtain more complete reports during the epidemic.
² Mississippi excluded.

Influenza is so incompletely reported that many States send to the Public Health Service estimates based on various types of supplementary information, rather than actual cases reported by attending physicians. Other States send letters to physicians or by published appeals stimulate the reporting of cases. Thus in one week roughly two-thirds of all reported cases were reported by one State and this one report has an overwhelming influence on locating the peak week for the country as a whole. To avoid such situations, table 2 of reported cases by weeks is based on 37 States, the District of Columbia, and New York City in which reporting has been reasonably consistent in the various weeks before and during the epidemic. It will be noted that totals are far below those quoted above; the table is shown solely for judging the progress of the epidemic in different geographic sections.

Table 2 indicates that for the country as a whole the rise began around the middle of November with a peak for the week ending December 22, the two succeeding weeks being definitely below the peak.

The peak of reported cases comes rather definitely in the week ending December 22 in nearly all geographic sections except the East South Central and the Pacific in which the cases are almost the same in the week ending December 29 as in the preceding week. So few cases have been reported in the New England States that the indicated peak in the week of December 15 is not reliable.

Table 2.—Influenza cases reported by geographic sections by weeks in 1945-46 and in corresponding weeks of preceding years—including only States reporting consistently before and during the epidemic

					Week	ended-				
Geographic section					1945					1946
*	Nov.	Nov. 10	Nov.	Nov. 24	Dec.	Dec.	Dec.	Dec.	Dec. 29	Jan.
37 States, District of Colum-										
bia, and New York City:										
1945-46	2,611	2,720	4, 022	4, 957	11, 329	22, 650	29, 332		33, 460	33, 89
1944-45	1,608	1, 290	1,829	1,748	2, 117	2, 423	2, 893		3, 439	4, 54
1943-44	1,414	1,537	1,700	2, 441	4, 395	11, 321	38, 982	55, 015	84, 701	86, 78
1942-43	1,549	1, 567	1,742	1,822	1,890	2, 552	2, 382	2, 182	3, 325	3, 70
New England:			1	1	1	1			1	
1945-46	9	0	5	4	1	3	37	24	24	56
1944-45	21	33	14	24	28	26	24	20	21	5
1943-44	3	1	3	32	54	121	342	929	830	45
1942-43	3	15	4	3	9	3	4	3	11	3
Middle Atlantic:										
1945-46		10	11	10	45	45	164	264	256	-25
1944-45	10	5	7	3	4	7	9	7	9	1
1943-44	14	7	24	11	36	133	564	889	526	22
1942-43	22	37	20	25	31	31	23	25	42	5
East North Central:								1		
1945-46	50	54	279	384	1,309	1,418	1,045	2, 601	1,564	1, 67
1944-45	12	29	19	15	36	35	15	25	35	36
1943-44	30	159	33	29	121	926	2, 995	3, 250	3,095	3, 59
1942-43	52	45	65	50	41	52	105	48	94	107
West North Central:										100
1945-46	9	12	21	29	142	623	159	561	200	850
1944-45	1	16	19	1	8	5	21	11	13	14
1943-44	1	8	8	422	382	533	708	206	480	312
1942-43	4	8	8	3	12	23	36	9	2	68
South Atlantie:			1 000							
1945-46	711	678	1, 393	1,623	3, 953	10, 147	12, 264	15, 142	12, 110	11, 194
1944-45	505	444	551	594	514	578	646	622	742	1, 216
1943-44	428	446	507	649	1, 227	4, 035	15, 920	16, 425	35, 978	32, 635
1942-43	539	637	674	811	559	1,042	798	691	1, 224	1, 561
East South Central:	48	477	323	246	499	001	049	1 800	1 001	0.180
1945-46	28	47			477	661	853	1,599	1,661	3, 178
1944-45 1943-44	91	67	34 85	31 110	82	78 591	80	102	118	430
1942–43	59	49	81	42	425 87	120	1, 277	2, 555 199	8, 775 212	6, 160
West South Central:	00	40	01	4.6	04	120	80	100	212	180
1945-46	1,672	1,769	1,777	2, 178	4, 551	8, 297	12, 587	17, 687	13, 760	14, 191
1944-45	908	604	1,064	945	1, 280	1, 541	1, 896	1, 668	2, 318	2, 544
1943-44	666	694	800	970	1, 511	3, 549	8, 971	15, 504	21, 550	33, 226
1942-43	655	623	671	628	902	1,004	993	958	1, 455	1, 410
Mountain:	000	040	0.1	020	002	2,001	000	900	1, 400	1, 110
1945-46	92	137	196	453	802	1, 361	2,076	4, 258	3, 293	1, 288
1944-45	97	97	82	101	132	107	162	198	154	190
1943-44	142	137	218	179	578	1, 337	4, 770	6, 188	6,007	5, 139
1942-43	168	101	156	197	198	206	275	202	234	230
acifie:	100				200	200	210	202	202	200
1945-46	14	13	17	30	49	95	147	692	592	705
1944-45	25	22	39	34	33	46	40	35	29	49
1943-44	39	18	22	39	61	96	3, 435	9, 069	7, 460	5, 036
1942-43	47	52	63	63	- 51	71	68	47	51	51

¹ States excluded are those reporting such unusually large numbers of cases as to indicate estimates or large sudden changes in the completeness of reporting.

Reported cases indicate that the incidence started to rise during the second or third week of November in Indiana, South Carolina, and

Texas; the two latter States commonly report many more cases than other States but the rise mentioned refers to cases in excess of the usual level of reporting. If the epidemic did start in the middle sections of the country and almost simultaneously in several States, its rapid spread to other sections would be expected, so the single peak in nearly all regions is not unreasonable. The 1920 epidemic started in the Great Lakes region and very quickly spread to all parts of the country. During the week ended January 5, the latest data available, there were 33,893 cases reported.

Thus far there has been very little mortality. Data are not available on deaths credited to influenza and pneumonia, but deaths from all causes in 93 large cities as released by the United States Bureau of the Census indicates an excess over the average for the same period in 1942 and 1944 of 9.9 percent during the 4 weeks ending December 29, and 13.6 percent during the 2 weeks ending December 29, 1945. There is nearly always some excess mortality during an influenza epidemic, no matter how mild the cases. In December of 1943 influenza was epidemic and the number of deaths was greater than in the current 4-week period.

Diphtheria.—For the 4 weeks ended December 29 there were 1,819 cases of diphtheria reported, as compared with 1,517 in 1944 and a 5-year median of 1,369 cases. For the country as a whole the current incidence was the highest for this period since 1941 when 1,830 cases were reported. Each section of the country except the Middle Atlantic and Pacific reported excesses over the normal (median) seasonal expectancy, the increases ranging from 1.4 times the median in the East South Central section to 2.9 times the median in the Mountain section.

Meningococcus meningitis.—The number of cases of meningococcus meningitis rose from 397 during the preceding 4 weeks to 498 for the 4 weeks ended December 29. The number of cases was, however, only about 65 percent of the 1944 figure for these weeks and was about the same as the 1940-44 median (490 cases). Each section of the country reported a decline from the 1944 figures, but only 4 of the 9 sections showed a decline from the preceding 5-year median.

Poliomyelitis.—The number of cases of poliomyelitis dropped from 932 during the 4 weeks ended December 1 to 458 during the current 4-week period. The incidence was, however, 20 percent above the 1944 figure and about 80 percent above the 1940–44 median. Each section of the country contributed to the relatively high incidence of this disease, the largest excesses over the normal seasonal incidence occurring in the East North Central and Pacific sections.

DISEASES BELOW MEDIAN PREVALENCE

Measles.—For the 4 weeks ended December 29 there were 10,381 cases of measles reported, as compared with 3,092 for the corresponding

period in 1944 and a 5-year median of 18,868 cases. The incidence was higher in all sections of the country than in 1944, but only 3 sections, the East North Central, East South Central, and Pacific, reported excesses over the preceding 5-year medians. The greatest declines from the normal seasonal incidence were reported from the North Atlantic and West North Central sections, and the greatest increase over the median was reported from the Pacific section.

Scarlet fever.—The incidence of this disease was the lowest on record for this period. The number of cases (10,391) was about 70 percent of the number reported in 1944, and less than 90 percent of the 1940–44 median. The West South Central and Pacific sections reported increases over the normal seasonal expectancy, but in all other sections the incidence was relatively low.

Smallpox.—The smallpox incidence was also the lowest on record for this period. The 23 cases reported for the current 4 weeks was below even the low level of 1944 and was less than 35 percent of the preceding 5-year median. Significant decreases in the incidence were reported from areas normally reporting a high incidence.

Typhoid and paratyphoid fever.—The number of cases (207) of typhoid fever was slightly below the 1944 figure for this period, but it was only about 65 percent of the 1940–44 median. In the West South Central section the number of cases (57) was higher than the normal seasonal expectancy and in the East North Central and Mountain sections the incidence was about normal but in all other sections the disease was less prevalent than in preceding years.

Whooping cough.—For the 4 weeks ended December 29 there were 7,297 cases of whooping cough reported as compared with a seasonal expectancy of approximately 12,000 cases. The North Atlantic, East North Central, and East South Central sections reported more cases than occurred during the corresponding period in 1944, but none of the 9 geographic sections reported any excess over the 1940–44 median. The greatest declines from the seasonal expectancy were reported from the Middle Atlantic and East North Central sections.

MORTALITY, ALL CAUSES

For the 4 weeks ended December 29 there were 41,896 deaths from all causes reported to the Bureau of the Census by 93 large cities. In the years 1944, 1943, and 1942 the deaths for the corresponding period totaled 37,947, 49,108, and 38,280, respectively. The current number of deaths represented an increase of about 10 percent over the number reported for this period in 1944, but it was only about 0.2 percent above the 1942–44 average, which includes the 1943 influenza epidemic. A further discussion of mortality in large cities is found under the subject of influenza.

DEATHS DURING WEEK ENDED DECEMBER 29, 1945

114

[From the Weekly Mortality index, issued by the Bureau of Census, Department of Commerce]

	Week ended Dec. 29, 1945	
Data for 93 large cities of the United States: Total deaths. Average for 3 prior years. Total deaths, 52 weeks of year. Deaths under 1 year of age. Average for 3 prior years Deaths under 1 year of age, 52 weeks of year.	11, 384 11, 549 471, 714 602 687 31, 573	9, 934 468, 773 608 32, 113
Data from industrial insurance companies: Policies in force. Number of death claims. Death claims per 1,000 policies in force, annual rate. Death claims per 1,000 policies, 52 weeks of year, annual rate.	67, 190, 360 7, 789 6. 0 9. 9	66, 891, 064 10, 500 8. 2 10. 0

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PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

REPORTS FROM STATES FOR WEEK ENDED JANUARY 5, 1946 Summary

A total of 48,041 cases of influenza was reported, as compared with 52,947 last week, 4,587 and 126,610 for the corresponding weeks, respectively, of 1945 and 1944. Increases occurred in the New England, North Central, West South Central, and Pacific areas. States showing the largest increases are Alabama (1,279), Kansas (1,119), Texas (850), Utah (745), Nebraska (675), and Connecticut (545). Current reports for Nebraska, Texas, and Utah, however, are less than for the week ended December 22. Decreases occurred in 5 of the 12 States reporting currently more than 1,000 cases each, as follows (last week's figures in parentheses): Increases—Wisconsin 1,494 (1,034), Kansas 3,705 (2,586), West Virginia 2,356 (2,302), Alabama 2,497 (1,218), Oklahoma 2,245 (1,176), Texas 11,510 (10,660), Utah 1,114 (369); decreases—Virginia 5,323 (5,907), South Carolina 3,017 (3,243), Kentucky 1,953 (8,071), Arkansas 1,204 (1,924), Louisiana 6,314 (7,225).

Since September 29 a total of 401,982 cases has been reported, as compared with 29,985 and 461,940, respectively, for the corresponding periods ended with the first weeks of January 1945 and 1944.

Of the total of 189 cases of meningococcus meningitis reported, as compared with 162 last week and 238 for the corresponding week last year, 73 occurred in 5 States, as follows (last week's figures in parentheses): New York 14 (13), New Jersey 15 (10), Ohio 10 (8), Texas 13 (13), California 21 (14).

Deaths registered in 93 large cities of the United States during the week totaled 11,928, as compared with 11,399 for the preceding week, 9,786 for the corresponding week last year, and a 3-year (1943-45) average of 11,353.

Telegraphic morbidity reports from State health officers for the week ended January 5, 1946, and comparison with corresponding week of 1945 and 5-year median

In these tables a zero indicates a definite report, while leaders imply that, although none was reported, cases may have occurred.

	D	iphthe	ria	1	Influenz	8		Measles			eningi ingoco	
Division and State	wend	eek ed—	Me-	end	eek ed—	Me-	Wende	eek ed—	Me-	wende	eek ed—	Me-
	Jan. 5, 1946	Jan. 6, 1945	dian 1941- 45									
NEW ENGLAND												
Maine	0	0			1	1	12	6	37	0	2	2
New Hampshire	1	0	0		1	24	3	18	11	0	1	-
Vermont	4	7	5			24	236	61	384	5	8	8
Rhode Island	0	0	0		55	25		5	7	0	0	(
Connecticut	3	4	0	558	2	10	21	14	32	2	5	2
MIDDLE ATLANTIC												
New York	15	9	15		(1)	1 17	316	57	670	14	22	22
New Jersey Pennsylvania	10	1 16	16			20	26	12 47	346 1121	15 7	19 10	11
	10	10	10	10		9		4.	1121		10	10
EAST NORTH CENTRAL	**					00	00					
Ohio	48 13	11	11		7	26 49	23 38	12	95 42	10	11	8
IndianaIllinois	17	7.	16		4	18	327	34	169	9	25	6
Illinois	-2	3	3	8	*******	6	52	6	83	0	1	1
wisconsin	7	0	. 1	1, 494	28	62	45	33	303	2	5	2
WEST NORTH CENTRAL	-			-								
Minnesota	4	13	2	8		1	4	4	6	1	3	0
Iowa	9	5	5 3	59 23	3	10	16	21	50	5	2	2 7
Missouri North Dakota	2	10	8	25	8	49	41	2	27 10	0	. 11	í
South Dakota	0	1	3				10	9	9	0	1	0
Nebraska	10	10 10	4	819 3, 705	11 2	11	14 93	11	64	0	1	1 2
Kansas	10	10	3	3, 103	-	a	93	10	04	1	1	2
SOUTH ATLANTIC				-								
Delaware Maryland ¹	13	0	1 5	69	6	11	10	5	13	6	0 5	5
District of Columbia	0	0	0	10	1	6	2	5	5	2	i	1
Virginia	19	2 3	13 7	5, 323	398	659	85	8	146	9	4	4
West Virginia	37	13	13	2, 356	59	59 12	53	61	61	6 8	8	2 3
North Carolina	7	7	7	3,017	688	688	61	11	33	3	4	4
Georgia	13	9	9	411	62	181	19	2	8	2	2	. 2
Florida	6	12	7	8	2	15	19	3	8	8	2	1
EAST SOUTH CENTRAL												
Kentucky	4	10	4	1, 953	17	2	119	5	66	4	4	6
TennesseeAlabama	10	13	4 7	681 2, 497	413	89 413	22	39	39 23	4	6	6
Mississippi 3	14	13	5							1	8	2
WEST SOUTH CENTRAL												
Arkansas	13	6	7	1, 204	123	192	12	8	39	0	4	0
Louisiana	16	8	7 9	6, 314	21	21	6	12	11	0	1	1
Okianoma	- 67	7 66	5 46	2, 245 11, 510	171 2, 250	187 2, 250	31 91	15 90	90	13	9	2 3
Texas	0.	00	40	11,010	2, 200	2, 200	91	90	30	10	9	9
				970	-	-						
Montana	3	1 2	0	350 79	31	- 31	100	2 2	38	0	0	0
W voming	3	ō	0	6 .		54	3 _		10	0	Ô	0
Colorado	4	* 4	6	195	25	62	59	8	92	5	2	1
Arizona	7 0	13	1	657	132	195	6	2 3	10 20	2	0	0 2
ArizonaUtah 3	0	0	ô	1, 114	1	32	72 15	14	14	ô	0	î
Nevada	0	0	0			*****	15	4	4	0	1	0
PACIFIC	1										1	
Washington	3	10	7		1	2	241	25	25	0	2	2
Oregon.	9	2	17	269	22 26	22	34	54	55	7	6	6
California	30	34	17	436	26	108	414	210	210	21	22	13
Total	458	361	361	48, 041	4, 587	4, 587	2, 760	979	7, 892	189	238	238

¹ New York City only.
2 Period ended earlier than Saturday.

Telegraphic morbidity reports from State health officers for the week ended January 5, 1946, and comparison with corresponding week of 1945 and 5-year median—Con.

	Pol	liomye	litis	80	arlet fe	ver	8	mallpo	X	Typhe	oid and hoid fe	i para ver 3
Division and State	wende	eek ed—	Me-	Wende	eek ed—	Me-	wende	eek ed—	Me-	wend	eek ed—	Me-
	Jan. 5, 1946	Jan. 6, 1945	dian 1941– 45	Jan. 5, 1946	Jan. 6, 1945	dian 1941- 45	Jan. 5, 1946	Jan. 6, 1945	dian 1941- 45	Jan. 5, 1946	Jan. 6, - 1945	dian 1941- 45
NEW ENGLAND												
Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	0 1 1 1 0 0	3 0 0 0 0	0 0 0 0 0	35 2 4 163 12 31	35 19 5 261 19 49	14 6 8 262 13 49	0 0 0 0 0	0 0 0 0	0000	0 0 0 0 0	0 0 0 0 0	
MIDDLE ATLANTIC												
New York New Jersey Pennsylvania	6 1 0	9 1 0	0 0	263 56 146	408 120 250	367 120 250	0	- 0 0	0 0	1 3	1 3	0
EAST NORTH CENTRAL												
OhioIndianaIllinois	3 1 0 0	5 4 0 0	1 0 0	216 56 139 39 84	317 115 269 35 145	290 103 219 72 145	0 1 0 0	0 4 1 0	0 2 0 0	0 3 0 0	0 2 0 0	3 1 2 0 0
Wisconsin	10	0	0	01	140	140	· ·	0	0	9	0	
Minnesota	0 0 1 0 0	0 0 2 0 0	0 1 0 0	22 39 38 5	53 55 82 11 39	66 53 52 16 39	0 0 0	0 0 0 0	0 0 0	0 0 1 0 0	0 0 0	0 1 0 0 0 0
Nebraska Kansas SOUTH ATLANTIC	0	0	0	48 80	15 125	33 80	0	0	0	0	2	0
Delaware Maryland District of Columbia Virginia West Virginia North Carolina South Carolina Georgia Florida EAST SOUTH CENTRAL	0 0 0 0 0 0 1 0 0	0 0 4 1 0 0 1	0 0 1 1 0 0 0	6 55 5 55 38 51 6 12 6	9 105 42 97 69 94 11 32 13	12 43 15 46 49 81 13 23 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 3 2 1 0 2 0	0 1 1 0 0 1 1 1 0 0	0 1 0 1 0 1 1 3 0
Kentucky Tennessee Alabama Mississippi	0 2 1 3	1 0 0 3	1 0 0	40 49 22 15	38 59 29 21	48 49 29 13	0 0 0	1 0 1	0 0 1	0 5 0	0 1 1 1 0	1 1 2 0
WEST SOUTH CENTRAL		1	1	-				1		1		
Arkansas	1 1 1 5	0 1 1 2	0 0 1 2	9 16 46 87	11 13 55 131	7 9 18 54	0	1 0 1 0	0 0 1	1 2 0 7	1 0 0 4	1 2 1 5
Montana	0 0 0 0 0 1	1 0 0 1 2 1	1 0 0 0 0	13 7 1 29 13	9 63 8 113 17 22 43	26 8 7 30 6 7	0	0 2 0 0 0	0 1 0 1 0 0	0 0 0 0 1	0 0 0 2 4	0 0 0 1 3 0
Utah 1	0	0	0	32	43	43	0	0	0	0	0	0
PACIFIC Washington	4	3	2	45	75	52	0	0	0	1	0	0
Oregon. California	0	0	2 0 4	203	39 277	14 150	0	0	0	0	0	0 2
Total	47	52	34	2, 383	3, 922	3, 457	. 4	12	12	40	32	58

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Period ended earlier than Saturday.
 Including paratyphoid fever reported separately as follows: Connecticut 1; New Jersey 1; South Carolina 2; Tennessee 3; Texas 1.

Telegraphic morbidity reports from State health officers for the week ended January 5, 1946, and comparison with corresponding week of 1945 and 5-year median—Con.

	Who	oping c	ough			We	ek ende	ed Jan. 5	, 1946		
	Week e	ended-	Me-	I	ysent	ery	En-	Rocky		Ту-	Un-
Division and State	Jan. 5, 1946	Jan. 6, 1945	dian 1941- 45	Amebic	Bacil	Un- speci- fied	ceph- alitis, infec- tious	Mt. spot- ted fever	Tula- remia	phus fever, en- demic	du- lant
NEW ENGLAND											
Maine	19	37	37								
New HampshireVermont	16	50	33								
Massachusetts	129	74	247		1	2	. 1				
Rhode Island	19 31	6 73	73	-:							****
Connecticut	91	10	10	1 1	1						
MIDDLE ATLANTIC		10-									
New York	179 91	167 85	375 103	4	1	1		*******		1	
New Jersey Pennsylvania	94	141	283				2				
BAST NORTH CENTRAL		-	-								
	71	118	144						3		
OhioIndiana	12	13	19							*****	
Illinois Michigan	47	72	145								
Michigan 3	18 48	17 73	97 98		1						
Wisconsin	10	40	90							*****	1
WEST NORTH CENTRAL		-									
Minnesota	8	30	34 11	1							
Iowa Missouri	7	2 13	17						3		
North Dakota		1	6					*******			
South Dakota		8 2	8						*****		
Nebraska Kansas	17	31	46								*****
SOUTH ATLANTIC		-	-			-					
											-
Delaware Maryland ³ District of Columbia	20	8	8 59			3		*******	3		
District of Columbia	10	72 3 45	13								
Virginia West Virginia	44	45	61			21			6	1	
North Carolina	3 26 63	18 71	28 115							2	
South Carolina	63	78	55		69					2	
Georgia	6	6	18	2	1			******	2	11	1
Florida	1	4	15				*****			4	
EAST SOUTH CENTRAL											
Kentucky	5	13	22				1	******	3		*****
TennesseeAlabama	11	12 17	20 17	1					3	1 7	
Mississippi 1						*****		*******		7 3	i
WEST SOUTH CENTRAL											
the second secon	3	22	10			-				1	
ArkansasLouisiana	2 5	2 5	2	2						3	
Oklahoma	5		200	18	368	29				30	
Texas	107	200	200	10	308	20			******	30	
MOUNTAIN											
Montana	6	15	15								
Idaho		8	8					********	*****		
Colorado	23	34	23								
New Mexico	10	5	9 21	1		45					
Arizona Utah •	12	8	20	*****	*****	30		*******			i
Nevada	1.		3								
PACIFIC	*		-								
Washington	69	21	43		*****						1
Oregon California	13	15	13								
	98	149	154	4	3		1			1	3
Total	1, 373	1, 845	3, 449	37	450	101	5	0	20	67	47
Same week, 1945	1,845			9	954	314	5	0	39	85	55
A verage, 1943-45	2, 344 .			15	461	131	6	• 0	33	4 66	34

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Period ended earlier than Saturday.
 5-year median 1941-45.

WEEKLY REPORTS FROM CITIES

City reports for week ended December 29, 1945

This table lists the reports from 87 cities of more than 10,000 population distributed throughout the United States, and represents a cross section of the current urban incidence of the diseases included in the table.

	38.68	tis, in-	Influ	lebza	2	me- cus,	n in	litis	fever	cases	prod	dano
	Diphtheria cases	Encephalitis, i	Cases	Deaths	Measles cases	Meningitis, meningococcus,	Pneumon deaths	Poliomyelitis cases	Scarlet fe	Smallpox ca	Typhoid and paratyphoid fever cases	Whooping cough
NEW ENGLAND												
Maine: Portland	0	0	1	0		0	4	1	8	0	1	,
New Hampshire:			1									
Concord Vermont:	0	0		0		0	3	0	0	0	0	
Barre	0	0		0		0	0	0	1	0	0	
Massachusetts: Boston	3	1		1	13	2	16	. 0	34	0	0	18
Fall River	0	0		0	1	0	4 2	0	1 5	0	0	11
Worcester Rhode Island:	0	0		. 0	8	0	11	0	7	0	0	13
Rhode Island: Providence	1	0	1	1		0	4	0	2	0	0	18
Connecticut:					******							
Bridgeport	0	0	4	0	1	0	5	0	6	0	0	1
New Haven	ő	0		ő		0	2	0	ő	ő	ő	5
MIDDLE ATLANTIC							-					
New York:												
Buffalo	1	0	3	2	10	1	8	0	3	0	0	19
New York Rochester	6	0	71	8 0	38	7 0	154	0	82	0	1	47
Syracuse New Jersey:	0	0		0	193	1	4	0	12	0	0	1 5
Camden	0	0	1	2	1	0	7	0	1	0	0	1
Newark	0	0	28	4	4	2	7 7 1	0	11	0	0	17
Trenton	0	0	3	1		0	1	0	2	0	0	
Pennsylvania: Philadelphia	2	0	21	5	109	1	28	0	34	0	2	26
Pittsburgh Reading	0	0	7 1	8	2	5	23	0	14	0	. 0	3
EAST NOBTH CENTRAL												
Ohio:												
Cincinnati	2	. 0		7	1 2	2 3	24	0	18	0	0	6
Cleveland	1 4	0	22	4	2	3	18	0	17	0	0	7
Indiana:				10								
Fort WayneIndianapolis	0 2 0	0	*****	0 2 0	3	0	12	0	0	0	0	2
South Bend	0	0			2	0	0	0	1	0	0	
Illinois.	0	0		1	******	0	8	0	0	0	0	
Chicago Springfield Michigan:	3	0	16	4	294	5	59	1	49	0	0	37
Michigan:	1	0	*****	0	******	0	5	0	1	0	0	*****
Detroit	3	0	10	0	80	2	30	0	34	0	0	39
FlintGrand Rapids	5	0		0	1	0	0 2	0	7 3	0	0 -	1
Wisconsin:			******									•
Kenosha Milwaukee	0	0		0	4	0	0	0	17	0	0	9
Racine	0	0		0		0	0	0	1 0	0	0 -	
Superior	0	0		0		0	0	0	0	0	0	1
WEST NORTH CENTRAL											,	
Minnesota: Duluth	0	0		,		0	2	0	3	0	0	
Minneapolis	3	0		0	1	0	3	0	13	0	0 .	
Missouri:	2	0	0	5		0	12	0	10	0	0	
St. Joseph St. Louis	0	0	8	0	35 11	0	0	0	0	0	0 .	
St. Louis	3	1	42	6	8	1	24	1	13	0	0	3

City reports for week ended December 29, 1945-Continued

	eria	litis,	Influ	enza	68868	itis, beec-	since	elitis	fever	cases	and boid	pin g
	Diphtheria	Encephalitis, infectious, cases	Cases	Deaths	Measles or	Meningitis, meningococ- cus, cases	Pneumoni	Poliomyelitis cases	Scarlet f	Smallpox	Typhoid and paratyphoid fever cases	Who o p
WEST NORTH CENTRAL— continued							-					
Nebraska: Omaha	2	0		1	1	0	10	0	3	0	0	
Kansas: Topeka	1	0		0	5	0	0	0	0	0	0	
Wichita	Ö	0	2	0	1	0	5	0	7	0	0	1
SOUTH ATLANTIC												
Delaware: Wilmington Maryland:	0	0		0	2	0	7	0	0	0	0	. 1
Maryland: Baltimore	10	-0	64	4	4	0	26	0	6	0	0	ā
Cumberland Frederick	0	0		0		0	0	0	ő	ő	0	
District of Columbia:						3	18	0	9	0	2	15
Washington Virginia:	0	1	44	1								10
Lynchburg Richmond	0	0	2	0		0	9	0	4 7	0	0	. 4
Rosnoke	0	0		0		0	0	ő	i	ő	0	
West Virginia:				2		0	3	0	i	0	0	
Roanoke	0	0		2		0	9	0		-		
Raleigh Wilmington	0	0		0		0	3	0	5	0	0	3
Wilmington Winston-Salem	0	0		0		0	2	0	3	0	0	2
South Carolina:								1				
Charleston	1	0	368	0		0	1	1	1	0	0	
Georgia: Atlanta	1	0	77	5	2	1	13	0	0	0	0	
Brunswick	0	0	14	0		1 0	0	0	0 3	0	0	*****
SavannahFlorida:												
Tampa	1	0	1	0	12	1	4	0	1	0	0	
BAST SOUTH CENTRAL												
Tennessee: •			-		_						1	1
Memphis	0	0	28	3	7 2	1	16	0	3 1	0	ô	1
Alabama:					-						0	
Birmingham	2 2	0	50 15	1 3	1	1 0	8	0	3	0	0	
Mobile			10		1							
Arkansas:												
Little Rock	0	0	13	1	2	0	2	0	0	0	0	
Louisiana: New Orleans	2	0	4	2	1	1	8	0	7 2	0	1	
New Orleans	2	0		3		0	8	0	2	0	0	
Texas: Dallas	- 4	0	4	1		0	7	0	3	0	1	
Galveston	0	0		0		7	0	0	3	0	0 2 0	*****
Houston	5	0	8	0	1	ó	16	0	2	ő	0	2
MOUNTAIN												
Montana:		1										
Billings	0	0		0		0	2	0	1	0	0	
Great Falls	0	0		0		0	0	0	0	0	0	
MISSOUR	ő	ő	104	0		ő	1	0	1	ŏ	ŏ	
Idaho: Boise	0	0		0-		0	3	0	0	0	0	
Colorado:			00		,	0	7	0	15	0	0	
Pueblo	0	0	28	0	1 1	0	2	0	2	0	ő .	
Utah: Salt Lake City	0	0		0	3	0	3	1	2	0	0	1

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City reports for week ended December 29, 1945-Continued

	08868	i, in-	Influ	lenza		me- cus,	nis	itis	676	sea	pud	cough
-	Diphtheria c	Encephalitis, fectious, cas	Cases	Deaths	Measles case	Meningitis, me ningococcus cases	Pneumo deaths	Poliom yelitis	Scarlet fe	Smallpox car	Typhoid paratyph fever cases	Whooping or cases
PACIFIC												
Washington: Seattle	0	0 0 0	1 5	0 0	43 12 21	0 0	6 2 1	2 0 0	4 0 0	0 0	0 0	6 3 2
Los Angeles Sacramento San Francisco	3 0 2	0	128 1 2	6 1 1	8 2 41	6 0 1	7 1 15	1 0 1	37 0 3	0	0	4
Total	86	4	1, 203	110	1,041	57	734	10	568	0	12	372
Corresponding week, 1944. Average, 1940–44	57 73		101 2,756	39 1 134	301 21,728		476 1 706		1, 081 996	0 2	5 12	391 814

1 3-year average, 1942-44.
2 5-year median, 1940-44.
Dysentery, amebic.—Cases: Buffalo 2; New York 4.
Dysentery, bacillary.—Cases: New York 2; St. Louis 1; Charleston, S. C. 1.
Dysentery, unspecified.—Cases: San Antonio 11.
Tularemia.—Cases: Baltimore 1; Nashville 2.
Typhus fever, endemic.—Cases: Charleston, S. C. 1; Atlanta 1; Nashville 1; Mobile 4; New Orleans 1; Houston 3; Los Angeles 1.

Rates (annual basis) per 100,000 population, by geographic groups, for the 87 cities in the preceding table (estimated population, 1948, 34,010,100)

	68.60	in-	Influ	enza	rates	men-	death	itis	Calse	case	d fe-	cough
t-	Diphtheria rates	Encephalitis, fectious, c	Case rates	Deathrates	Measles case rates	Meningitis, men ingococcus, cad rates	Pneumonia c	Poliomyel case rate	Scarlet fever rates	Smallpox	Typhoid paratypho	Whooping or case rate
New England	10. 5		15.7	5. 2	63			2.6	165	0.0		183
Middle Atlantic East North Central	4.6		62. 5	14.3	166			0.0	76	0.0		62
West North Central	12. 8 24. 8		29. 8 117. 2	14. 0 29. 3	262 140	2.3		1.2 2.3	95 110	0.0		0.
South Atlantic	21.8		954. 5	23.4	33	10.0		1.7	72	0.0	3.3	5
East South Central	29. 5		548. 9	47. 2	33 59	17. 7	183.0	0.0	47	0.0	5. 9	-
West South Central	43.0	0.0	83. 2	23.0	11 40	23.0		0.0	47 52	0.0	11.5	. 6
Mountain	15. 9		1,048.4	23.8	40	0.0		7.9	175	0.0	0.0	71
Pacific	7.9	0.0	216. 7	12.7	201	11.1	50.6	6.3	70	0.0	0.0	30
Total.	13. 2	0.6	184. 9	16.9	160	8.8	112.8	1.5	87	0.0	1.8	57

TERRITORIES AND POSSESSIONS

Panama Canal Zone

Notifiable diseases—October 1945.—During the month of October 1945, certain notifiable diseases were reported in the Panama Canal Zone and terminal cities as follows:

Disease	Pa	nama	c	olon	Can	al Zone	zone	ide the and ter- il cities	т	otal
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
ChickenpoxDiphtheria	6 13	2	1 2		1		2		7 18	
Amebic Bacillary Malaria L Meningitis, meningococcus Mumps	1 5 1		6		3 36		76	3	123 1 1	3
Paratyphoid fever Pneumonia Poliomyelitis		7	1	1	39	1 1	2	5	139	14
Carlet fever Tuberculosis Typhoid fever Typhus fever Whooping cough	1 1 1	16		7	1	4	1 2 1	6	3 3 3 2	38

¹ 21 recurrent cases.
² Reported in the Canal Zone only

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FOREIGN REPORTS

ANGOLA

Notifiable diseases—July-September 1945.—During the months of July, August, and September 1945, certain notifiable diseases were reported in Angola as follows:

P	Jı	aly	Au	gust	Sept	ember
Disease	Cases	Deaths	Cases	Deaths	Cases	Deaths
Beriberi	11		12	. 2	9	
Bilharziasis	297		207	1	268	
Cerebrospinal meningitis	80	7	149	7	167	10
Chickenpox	66		6		171	
Diphtheria	2	1	2			
Erysipelas			2			
Dysentery:			_			
Amebic	132	3	98	5	154	1 1
Bacillary	11	3	11	1	2	
Gonorrhea.	213		259		254	1
Hookworm disease	552	10	724	6	760	1 6
Influenza	792	12	1, 489	18	1,006	7
Leprosy	15		15		14	
Measles	209	1	354	1	375	1
Mumps	14		44			
Pneumonia (all forms)	345	30	433	41	351	36
Poliomyelitis					5	
Relapsing fever	50		34		25	
Scarlet fever			2			
Septicemia	7	6	3	1	3	2
Smallpox	6		118		16	
Syphilis	413	1	459	2	459	1
Tetanus	6	5	5	3	5	2
Trachoma	1				24	
Tuberculosis (respiratory)	60	6	53	10	66	11
Trypanosomiasis	133	16	264	9	220	22
Typhoid and paratyphoid fever	2		4	1	10	1
Yaws	1,039		1, 196	1	1,077	
Whooping cough	46		42	1	60	

CANADA

Provinces—Communicable diseases—Week ended December 8, 1945.— During the week ended December 8, 1945, cases of certain communicable diseases were reported by the Dominion Bureau of Statistics of Canada as follows:

Disease	Prince Edward Island	Nova Scotia	New Bruns- wick	Que- bec	On- tario	Mani- toba	Sas- katch- ewan	Al- berta	British Colum- bia	Tota
Chickenpox		7 3	7	222 57	381 12	74	88	76	185	1, 033
Diphtheria		3	1	3	12	0			2	01
Dysentery, bacillary		*******		11	22	******	2	6	12	81
German measles				11	43	******	-	0	2	5
Measles	********	2 3		162	415	4	21	19	65	689
Meningitis, meningo-				102	410		21	10	00	40
coccus, meningo-					2			1		1
Mumps	********		4	112	80	13	12	142	77	440
Poliomyelitis	*******	1		***	1	20	2	***		
Scarlet fever	1	15	34	86	91	17	5	19	28	296
Tuberculosis (all forms)		1	9	91	83	20	13	20	66	300
Typhoid and para-				-					-	-
typhoid fever				21	2					22
Undulant fever	*******				2 2				1	3
Venereal diseases:	*********									
Gonorrhea.		25	18	58	143	59 28	43	51	81	478
Syphilis		31	8	101	120	28	16	19	34	357
Whooping cough		15	19	125	42	17	1	3		222

NORWAY

Notifiable diseases—June-August 1945.—During the months of June, July, and August 1945, cases of certain notifiable diseases were reported in Norway as follows:

Disease	June	July	August
Cerebrospinal meningitis	10	24	10
Diphtheria	486	573	533
Dysentery, unspecified.	141	57	190
Encephalitis, epidemic	1	4	
Erysipelas.	429	402	446
Pastroenteritis	5, 613	6, 671	10, 436
Gonorrhea	417	472	641
Repatitis, epidemic	1,002	629	780
mpetigo contagiosa.	3, 179	3, 378	4, 947
nfluenza	1, 296	761	1, 020
Laryngitis	9, 256	5, 709	5, 580
Lymphogranuloma inguinale.	0, 200	0, 100	0,000
Malaría.		1	
	6, 035	4, 088	2, 953
	113	60	2, 900
Denoting by Id Comm	3	12	22
		901	751
Pneumonia (all forms)	1,619	59	142
Poliomyelitis	19		153
Rheumatism	185	166	
cabies	3, 998	3, 580	4, 556
carlet fever	410	336	318
yphilis	87	87	97
Tuberculosis (all forms)	401	368	360
Typhoid fever	8	5	3
Veil's disease	1	3	3
Vhooping cough	1, 421	1,600	2, 434

Population, estimated, 1940-2,937,000.

WORLD DISTRIBUTION OF CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

From medical officers of the Public Health Service, American consuls, International Office of Public Health, Pan American Sanitary Bureau, health section of the League of Nations, and other sources. The reports contained in the following tables must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given.

CHOLERA

[C indicates cases; P, present]

NOTE.—Since many of the figures in the following tables are from weekly reports, the accumulated totals are for approximate dates.

	January-	Novem-	Dece	mber 1	945-w	reek en	ded-
Place	October 1945	ber 1945	1	8	15	22	29
- ASIA	3.00						
Ceylon: Trincomalee District C	16	********	1			2	
Hupeh Province C	60						
Kwangsi Province C	12						
Kwangtung Province C	105						
Kweichow Province	640						
Shensi Province C	10						
Sikong Province C	9						
Szechwan Province C	13, 360						
Chungking C	8,000						
Yunnan Province	23						
India C	214, 144						
Bombay C	98						
CalcuttaC	5, 120	71					
Cawnpore	202	3					
Chittagong C	19						
Delhi C	318						
Madras C	52						
Vizagapatam C	31						
Indochina: Cochinchina C	P	P					

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¹ Cholera was also reported present during August in the following Provinces of China: Chekiang, Honan, Hunan, and Kansu.

PLAGUE

[C indicates cases; D, deaths]

Place	January- October	Novem-	Dece	mber 1	1945—W	reek en	ded-
Fince	1945	ber 1945	1	8	15	22	29
AFRICA							
IgeriaC	1 13			1	1		
DasutolandC	4					******	
Bechuanaland	7	********	*****	*****			
delgian Congo	1 24	4	*****			******	****
ritish East Africa:	- 24				******	*****	
Kenya C	3 88	5					
UgandaC	6			*****			
gyptC	220	1		1		1	
Ismailiya	83						
Port Said	83	********		1			
Sues C	23	********				1	
		*********	*****	*****			
	5	********			*****		
Dakar	1	*********			*****	*****	****
	134	15			*****		****
forocco (French) C	811		*****				
enegalC	54		*****			*****	
unisia	3				*****		
nion of South Africa C	8	3		*****		******	
hina:							
Foochow	30						
Kwangtung Province	17		*****				****
				*****	*****		****
	1		*****		*****		****
Yunnan Province 4 C	38		*****	*****			
ndia	22, 917			*****			****
raqC	34	********			*****	*****	
alestine C	26	17	3	3			
Plague-infected rats	42		*****	*****	*****	*****	****
RUROPE .							
rance: Corsica—Ajaccio C	8						
reat Britain: Malta	1 62	10		1			
alyC	25	2		-	1		
ortugal: Azores	50	3					
pain: Canary Islands C	1						
NORTH AMERICA							
anada: Alberta Province: 8			-				
Plague-infected squirrels	2	*********	~~~~	*****	*****		
rgentina:							11
Buenos Aires Province—Plague-infected	1	+					,
rats	2						
Santiago del Estero Province C	2						
Tucuman Province C	1						
olivia: Santa Cruz Department C	• 79		*****				
Ceara State C	- 5						
Pernambuco State	51						
cuador:	9						

Canar Province C			BIRRE.				
Canar Province C Chimborazo Province C	6	********				****	
Canar Province C Chimborazo Province C Loia Province C		********		*****			
Canar Province C Chimborazo Province C Loja Province C eru:	6 20	*********					
Canar Province C Chimborazo Province C Loja Province C eru: Ancash Department C	6 20 7						
Canar Province C Chimborazo Province C Loja Province C eru: C Ancash Department C Ica Department C	6 20 7			******			
Canar Province C Chimborazo Province C Loja Province C eru: C Ancash Department C Ica Department C Lambayeque Department C	6 20 7 7 4 13		******	*****			
Chimborazo Province C Loja Province C cru: C Ancash Department C Ica Department C Lambayeque Department C Libertad Department C	7 7 74 13 11		******				
Canar Province C Chimborazo Province C Loja Province C eru: Ancash Department C Lca Department C Lambayeque Department C Libertad Department C Lima Department C	6 20 7 74 13 11 15						****
Canar Province C Chimborazo Province C Loja Province C cru: C Ancash Department C Loa Department C Lambayeque Department C Libertad Department C	7 7 74 13 11				*****		

¹ Includes 4 suspected cases.
2 Includes 5 suspected cases.
3 Includes 5 suspected cases.
4 Information dated July 5, 1945, stated that from April 1944 to May 1945, 85 deaths from plague had occurred in the mountainous region south of Kunming, China.
5 During the month of June 1945, plague infection in fleas was reported in Alberta Province. For the week ended July 28, 1945, plague infection was also reported in 6 pools of fleas in Alberta Province. For the week ended Aug. 11, 1945, 2 pools of plague-infected fleas were reported in Alberta Province, Canada.
6 Includes 6 suspected cases.
7 Includes 1 suspected case.

PLAGUE-Continued

[C indicates cases; D, deaths]

***	January-	Novem-	Dece	December 1945—week ended—							
Place	October 1945	ber 1945	1	8	15	22	29				
OCEANIA Hawaii Territory	9 1 13 10 60	*********									

SMALLPOX

[C indicates cases; P, present]

AFRICA							
AlgeriaC	209						
Angola	224						
BasutolandC	352	8					
Belgian CongoC	1 6, 456	1 219	30	22			
British East Africa:	- 09 800		-				1
KenyaC	643	96	8	16			
Nyasaland C	120	38	0	8			
	5, 627	97					
TanganyikaC		29	*****				
UgandaC	1,043						
Cameroon (French)	817	10					
DahomeyC	264	28	*****				
EgyptC	1,070	5	1				
French Equatorial AfricaC	1,606	91					
French GuineaC	1, 592	62					
French West Africa: Dakar District	401						
GambiaC	82						
Gold CoastC	677	46	35	31		44	
vory Coast	529	20	-			-	
Libya	8	10	5				
MauritaniaC	83	10				*****	
	1, 776	466				2 277	
Morocco (French)		200		*****		- 211	
MozambiqueC	4 005		*****				
NigeriaC	4, 205						
Niger TerritoryC	529	69					
Rhodesia:							
NorthernC	4, 735	534					
SouthernC	10						
SenegalC	498						
Sierra Leone	84	21	1				
Somaliland, British	1		-				
Sudan (Anglo-Egyptian)	*3						
Budan (French) C	2, 210	322			~~~~		
	36	18					
Cogo (British)	507	18				*****	
Togo (French)		125		*****		*****	****
l'unisia	15	125 P	******				
Union of South Africa 4 C	1, 947	P	P				
ASIA				-			
Arabia C	29						
Ceylon C	* 661	67	20		6	5	11:
China C	1, 272						
ndia C	225, 835						
ranC	400						
raqC	41						
yria and Lebanon	12	1			1		
Frans-Jordan C	2						
Turkey (see Turkey in Europe).	-	*******					
EUROPE					. 1		
Belgium C	1						
ranceC	27	********					
dermanyC	2	*******	*****				
Freat Britain: Scotland C	12						
talyC	2, 186	*******					
	9						
Sicily	00						
	28						
Portugal C							
Portugal C	31 1	*********					

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Previously reported as a case, death occurring on June 2, 1945.
 Plague infection was also proved positive in a pool of 5 mice on Jan. 4, in a pool of fleas on Feb. 14, and in a pool of 40 fleas on Mar. 14, 1945.
 Pneumonic plague.

Includes cases of alastrim.
 for the period Dec. 1-20, 1945.
 Imported.
 For the week ended June 30, 1945, cases of virulent smallpox were reported in the Union of South Africa.
 Includes some cases of chickenpox.

SMALLPOX—Continued [C indicates cases; P, present]

Place	January-	November 1945	December 1945—week ended—						
	October 1945		1	8	15	22	29		
NORTH AMERICA									
Canada C	6								
Guatemala C	4		-				*****		
Honduras C	8					*****			
Mexico C	1, 426		*****	*****					
Nicaragua C	1 141			*****					
SOUTH AMERICA									
Argentina C	6								
Bolivia C	1, 495	151							
Brazil C	1 726								
Colombia C	1,006								
Ecuador C	39					*****			
Paraguay C	1								
PeruC	160								
Uruguay C	81								
Venezuela	1 843	1 73	1 32						

¹ Includes cases of alastrim.

TYPHUS FEVER*

[C indicates cases; P, present]

C	1,024						
C	118						
		337	107	38			
		001	***	-	400000		
		16	30				
				*****		E	
			0			0	*****

	21	2					
C	1						*****
C	7, 565	250				* 167	
		1					

			*****	****	*****		*****
	385				*****		*****
C	776	P	P				
0	1 074						
			****	*****	*****		
		*******			*****	*****	*****

C	248	18	5	2			
C	166						
C	12				2		
		1		1			
-	-						1
		2					
C	100						
C	46	5					
C	158						
		33	3				
		100				*****	*****
		90		*****	*****		
			*****	*****			*****
C			3	0			
C							
C	* 21	4					
C	15						
					29		
-	001				-		
0	100				1		
2							*****
2			*****		*****	*****	*****
				*****			*****
C	51						
C	§ 7, 831	413					
č				1			
č	6			*****			
				Income	Icense.		
č	2, 511 2, 285	87	38	36	38	35	50
		C 1188 3022 C 390 C 15, 476 C 20 C 11 C 21 C 21 C 21 C 31 C 31 C 385 C 776 C 31 C 385 C 776 C 446 C 123 C 23 C 248 C 166 C 125 C 45 C 100 C 46 C 121 C 121 C 121 C 13, 874 C 145 C 1	C 1188 337 C 39 39 8 C 15,476 16 C 39 8 8 C 1 1 C 21 2 C 7,565 250 C 7 1 C 89 C 31 31 C 88 3 C 886 C 776 P C 1,874 C 23 C 23 C 45 C 166 C 12 C 145 C 166 C 158 C 394 C 166 C 158 C 394 C 166 C 158 C 394 C 166 C 158 C 166 C 17,903 C 16 C 17,903 C 16 C 17,903 C 17,903 C 17,903 C 18	C 118 302 337 107 C 302 337 107 C 15,476 16 39 C 20 6 C 21 2 2 6 C 21 7,565 250 6 C 7 1 6	C 118 302 337 107 38 30 C 15,476 16 39 6 C 20 C 1 C 21 C 1 C C 21 C 7,565 250 C 7 1 C C 8 3 3 C C 23 C 248 18 5 2 C 248 18 5 2 C 248 18 5 2 C 248 166 5 C 248 24	C 118 302 337 107 38	C 118 302 337 107 38

See footnotes at end of table.

TYPHUS FEVER-Continued

[C indicates cases; P present]

Place	January-	Novem-	December 1945—week ended—					
	October 1945	ber 1945	1	8	15	22	29	
NORTH AMERICA								
Canada !	1							
Costa Rica 1 C	7	5						
Cuba 1 C	13							
GuatemalaC	2,343							
Jamaica 1 C	43							
Martinique 1 C	1							
Mexico C	1,542							
Panama (Republic)	4							
Puerto Rico i C	172	5	3					
Virgin Islands 1 C	8							
SOUTH AMERICA								
Argentina C	9							
Bolivia C	641	76						
Brazil C	5							
Chile 1 C	544							
Colombia	422							
Curacao C	3							
Ecuador	516							
Peru	558							
Venezuela 1	130	6						
OCEANIA				7,		-	-	
Australia 1 C	108	8						
Hawaii Territory 1 C	85	5						

^{*}Reports from some areas are probably murine type, while others probably include both murine and louse-borne types.

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Hungary.
• For the period Jan. 1-20, 1945.

YELLOW FEVER

[C indicates cases; D, deaths]

AFRICA					1		
Gold CoastC	1 13						
Nsawam	23						
Takoradi	1						
TamaleC	3 1						
Winneba	4.4						
Ivory Coast:							
GaousC	1						
Guiglo	1						
Sierra Leone: Movamba C	2						
Sudan (French): BamakoC	3 1						
Dudan (* 1000). Danisa vicini	-	1					
SOUTH AMERICA							
Bolivia:			1				
Beni Department	1						
La Paz DepartmentC	2						
Brazil:	-						
Goiaz StateD	76						
Minas Geraes StateD	25						
Para State D	1						
British Guiana: Kwakwani C	î	*******			*****		
Colombia:				*****			
Magdalena DepartmentD	3						
Magdalena Department D Santander de Norte Department D	19			-			
Peru:	19		*****			*****	
reru:	3						
Cuzco Department	3	********					
Junin Department						*****	
ADDICTO APPARIONAL	1				*****		
Venezuela:							
Bolivar StateC	1						
Merida State	3						
Tachira State	20						
Zulia StateC	8				*****		

¹ Includes 4 suspected cases. ² Includes 2 suspected cases. ³ Suspected. ⁴ Includes 1 suspected case.

Reports cases as murine type.

For the period Dec. 1-20, 1945.

Includes imported cases.

For the period Jan. 1 to Sept. 1, 1945, between 8,000 and 10,000 cases of typhus fever were reported in Hungary.

FEDERAL SECURITY AGENCY UNITED STATES PUBLIC HEALTH SERVICE

THOMAS PARRAN, Surgeon General

DIVISION OF PUBLIC HEALTH METHODS

G. St. J. PERROTT, Chief of Division

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